

Cisco 760 Series



This chapter provides information on the Cisco 760 series routers. The information is organized into the following sections:

- Product Overview
- Standard Features
- Software
- Product Numbers

Note Documentation for the Cisco 760 series is available in two forms: on a CD-ROM called Cisco Connection Documentation, Enterprise Series (formerly called UniverCD) and printed books. You can request a free copy of the documentation CD when you place an order and have the option of subscribing to a CD update service. Installation documentation ships with each chassis, and a configuration note ships with each component ordered. All configuration notes are available on the CD.

You can also access Cisco technical documentation on the World Wide Web URL <http://www.cisco.com>. For more information, see the chapter “Documentation” at the end of the catalog.

Product Overview

The 760 series routers provide professional offices, small offices, and individuals with affordable, high-speed remote access to enterprise networks and the Internet in a modem-sized package. The routers also offer multiprotocol routing between WAN and LAN ports, as well as transparent bridging. The Cisco 760 series consists of the Cisco 765 and Cisco 766 routers.

The Cisco 760 series multiprotocol ISDN routers connect small offices or home offices that have Ethernet LANs to WANs using an ISDN BRI port. The Cisco 765 is the solution of choice for international users or users who prefer to use an external Network Termination 1 (NT1) device for connecting to an ISDN network. The Cisco 765 includes two external analog telephone interfaces. Using Cisco’s call priority feature, the Cisco 765 can drop one or both data channels to accept or initiate voice calls. Initial configuration options for the Cisco 765 can be entered using a standard touch-tone telephone.

The Cisco 766 is identical to the Cisco 765 except that it includes an integrated NT1 device for North American users.

Figure 94 Cisco 760 Series Front Panel

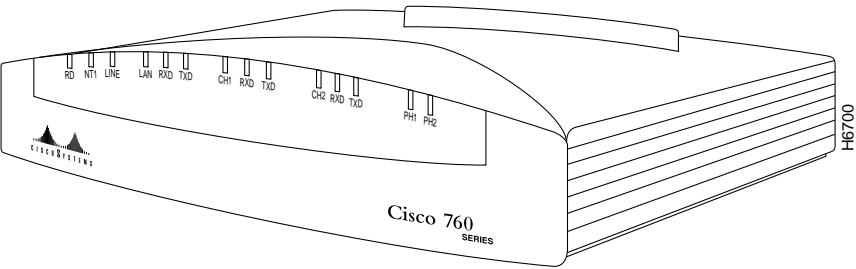


Figure 95 Cisco 765 Rear Panel

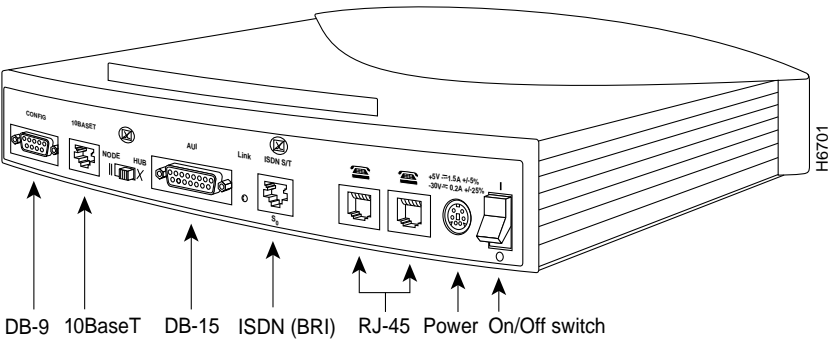


Figure 96 Cisco 766 Rear Panel

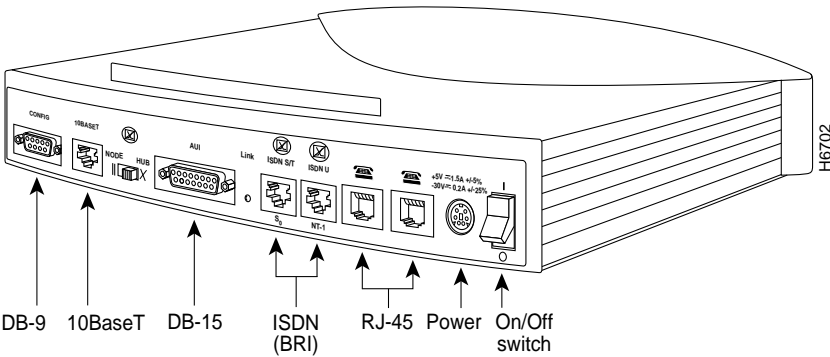


Table 208 Cisco 760 Series Summary of Features

Description	Feature
Dimensions (HxWxD)	1.6 x 8.3 x 9.6" (4.1 x 21.1 x 24.4 cm)
Weight	Cisco 765 and Cisco 766: 1.7 lbs (.75 kg)
Processor	25-MHz 80386
Memory	1-MB primary memory 512-KB Flash memory 16-KB NVRAM

Description	Feature
Network Interface Options	Cisco 765: 1 Ethernet (AUI or 10Base2), 1 BRI S/T, 2 POTS Cisco 766: 1 Ethernet (AUI or 10Base2), 1 BRI S/T, 1 BRI U, 2 POTS
Ethernet interface	Ethernet 10BaseT (RJ-45) Ethernet AUI (10Base5)
ISDN BRI interface	ISDN S/T (RJ-45) ISDN U (RJ-45)
Basic telephone service interface	POTS (RJ-11)
Console port	DB-9F (9-pin female)

Table 209 Cisco 760 Series Environmental Specifications

Description	Specification
Power supply Voltage	External table-top power supply US: 110 VAC; UK and Singapore: 240 VAC; Continental Europe: 220 VAC; Japan: 100 VAC
Frequency	US: 60 Hz; UK, Singapore, and Continental Europe: 50 Hz; Japan: 50 to 60 Hz
Operating temperature	32–120°F (0–50°C)
Storage temperature	–30 to 160°F (–35 to 70°C)
Operating humidity	20% through 95%, noncondensing

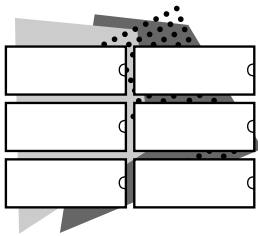


Standard Features

The Cisco 760 series routers include the following features:

- 1-MB DRAM for primary memory
- 512-KB Flash memory for software upgrades
- 16-KB NVRAM for storing configurations
- One RJ-45 10BaseT port for connection to a 10BaseT Ethernet network
- One AUI port for connection to a 10Base5 Ethernet network
- One RJ-45 ISDN BRI S/T port for connection to an external NT1 device (Cisco 765)
- One RJ-45 ISDN BRI S/T port for connection to an external NT1 device or a digital device, such as an ISDN telephone (Cisco 766)
- One RJ-45 ISDN BRI U port for connection to the ISDN line (Cisco 766)
- Two RJ-11 analog ports for connection to an analog device, such as a standard telephone, modem, or fax
- One DB-9 console port for connection to a terminal or PC
- DDR over ISDN lines
- Multilink PPP including dial-back
- Data compression and bandwidth-on-demand for throughput up to 512 kbps

- IP and IPX routing with transparent bridging
- IPX spoofing
- Remote ping
- Increased security with CHAP, PAP, callback authentication, and local password
- Personal Network Profiles to simplify access control and connections to multiple networks
- Network management and monitoring using SNMP and Telnet
- Demand RIP, versions 1 and 2, for dynamic routing updates without incurring toll charges
- Support for the following MIB II standards: system, interfaces, address translation, IP, TCP, ICMP, UDP, and SNMP
- Initial parameters configurable with touch-tone telephone
- Support for the following 802.1d MIB standards: base, transparent bridging, static
- ConnectPro Windows-based graphical user interface for simplified installation, configuration, and performance monitoring (included at no additional charge)



Software

The Cisco 760 series offers the Standard software feature set and the Remote Office software feature set upgrade. Both feature sets support IP and IPX routing and transparent bridging. With the Standard feature set, which comes with your router at no additional cost, you can connect up to four devices on the directly attached Ethernet LAN. For an unlimited number of LAN connections, you can purchase the Remote Office feature set upgrade. (See Table 210 for ordering information.)

All Cisco 760 series routers also come with (at no additional cost) Cisco ConnectPro software—a Microsoft Windows-based application that simplifies the process of installing, configuring, and managing Cisco 760 series routers. Cisco ConnectPro provides a series of interview dialogs with context-sensitive help screens for initial configuration. ISDN-specific parameters, such as directory numbers and SPIDs, can be easily entered using the graphical user interface. Cisco ConnectPro also provides a graphical representation of ISDN B channel activity and traffic throughput performance.

The Cisco 760 series is fully compatible with Cisco IOS-based routers, such as the Cisco 2500, Cisco 4000, and Cisco 7000 series routers.

Table 210 lists the features and product numbers of the Standard and Remote Office software feature sets.

Table 210 Standard and Remote Office Software Feature Sets—Cisco 760 Series

Category	Standard ¹	Remote Office Upgrade ²
LAN support	IP, transparent bridging, Novell IPX	IP, transparent bridging, Novell IPX
Number of LAN devices supported	4	Unlimited
WAN services	HDLCL, PPP ³ , ISDN ⁴	HDLCL, PPP ³ , ISDN ⁴
WAN optimization	Link compression, dial-on-demand, bandwidth-on-demand, access security, IPX spoofing	Link compression, dial-on-demand, bandwidth-on-demand, access security, IPX spoofing
IP routing	RIPv1 ⁵	RIPv2 ⁵
Other routing	IPX RIP	IPX RIP
Management	SNMP, Telnet	SNMP, Telnet
Software Product Numbers^{6, 7}		
Cisco 760 series Standard feature set for North America	SW760A-US-x.x=	–
Cisco 760 series Standard feature set for Europe	SW760A-CE-x.x=	–
Cisco 760 series Standard feature set for Australia	SW760A-AU-x.x=	–
Cisco 760 series Standard feature set for Japan	SW760A-JP-x.x=	–
Cisco 760 series Remote Office feature set for North America	–	SW760B-US-x.x=
Cisco 760 series Remote Office feature set for Europe	–	SW760B-CE-x.x=
Cisco 760 series Remote Office feature set for Australia	–	SW760B-AU-x.x=
Cisco 760 series Remote Office feature set for Japan	–	SW760B-JP-x.x=
Cisco ConnectPro software	SWCT750-x.x=	–

1. Cisco ConnectPro software is included with the router.

2. Spares and upgrades are provided on DOS diskette only.

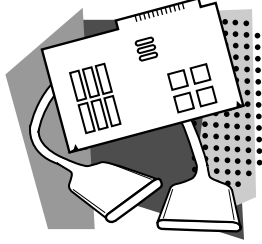
3. PPP includes support for Multilink PPP, RFC 1717, and PAP/CHAP authentication.

4. ISDN support includes BRI, CLI/ANI, subaddressing, and applicable WAN optimization features.

5. RIP includes compatibility mode for use with RIP Version 2.

6. Software installation requires a TFTP client.

7. Substitute the software release number for x.x in the product number.



Product Numbers

The Cisco 760 series routers ship with all necessary software and hardware, including power supplies and cables. Table 211 lists the product numbers you can use to order Cisco 760 series routers and spare power supplies and cables. If a product number ends with an equal sign (=), the item can be ordered only as a spare. If a product number does not end with an equal sign, the item can be ordered as a spare or as a configurable part of a system order.

Table 211 Cisco 760 Series Product Numbers

Description	Product Number
Chassis	
Cisco 765 Ethernet/ISDN BRI IP/IPX 2 POTS router (US and Mexico)	CISCO765-US
Cisco 765 Ethernet/ISDN BRI IP/IPX 2 POTS router (Canada)	CISCO765-CA
Cisco 765 Ethernet/ISDN BRI IP/IPX 2 POTS router (NET-3, Euro-ISDN, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Liechtenstein, Luxembourg, Monaco, Norway, Portugal, Spain, Sweden, and Switzerland)	CISCO765-CE
Cisco 765 Ethernet/ISDN BRI IP/IPX 2 POTS router (Netherlands and Korea)	CISCO765-NL
Cisco 765 Ethernet/ISDN BRI IP/IPX 2 POTS router (UK, Ireland, Scotland, and Hong Kong)	CISCO765-UK
Cisco 765 Ethernet/ISDN BRI IP/IPX 2 POTS router (Italy)	CISCO765-IT
Cisco 765 Ethernet/ISDN BRI IP/IPX 2 POTS router (Singapore)	CISCO765-SG
Cisco 765 Ethernet/ISDN BRI IP/IPX 2 POTS router (Japan)	CISCO765-JP
Cisco 765 Ethernet/ISDN BRI IP/IPX 2 POTS router (New Zealand)	CISCO765-NZ
Cisco 765 Ethernet/ISDN BRI IP/IPX 2 POTS router (Taiwan)	CISCO765-TW
Cisco 765 Ethernet/ISDN BRI IP/IPX 2 POTS router (Australia)	CISCO765-AU
Cisco 766 Ethernet/ISDN BRI IP/IPX 2 POTS router (US)	CISCO766-US
Cisco 766 Ethernet/ISDN BRI IP/IPX 2 POTS router (Canada)	CISCO766-CA
Power Supplies	
Cisco 760 series AC power supply	PWR-760=
Cables	
Cisco 760 series console cable	CAB-760-CON=